

Title (en)  
Process for the preparation of fatty acid esters

Title (de)  
Verfahren zum Herstellen von Fettsäureester

Title (fr)  
Procédé de fabrication d'esters de corps gras

Publication  
**EP 0924185 B1 20020918 (FR)**

Application  
**EP 98403164 A 19981215**

Priority  
FR 9716293 A 19971218

Abstract (en)  
[origin: EP0924185A1] The process enables the simultaneous production of a 6-26C ester composition and glycerin from primary products such as used frying oils by reaction with a 1-4C monoalcohol. The ester composition can be used as a gas oil fuel substitute. The composition of 6-26C linear monocarboxylic esters is obtained as follows: (a) the vegetable or animal oil (optionally acidic) is reacted with an excess of a 1-4C aliphatic mono-alcohol in the presence of a heterogeneous catalyst, with the elimination of excess monoalcohol and separation of glycerin : a crude ester product containing fatty acid esters and residual monoglycerides is obtained; (b) the crude ester is submitted to reaction of transesterification or esterification of residual monoglycerides into di- and possibly tri-glycerides in the presence of a similar heterogeneous catalyst by the fatty acid esters or an added 6-26C fatty acid; and (c) the ester composition is evaporated under reduced pressure and the residue , containing di-and triglycerides recycled to (a). An Independent claim is also included for the ester composition obtained by the process.

IPC 1-7  
**C07C 67/03**; **C07C 69/52**

IPC 8 full level  
**C07C 67/03** (2006.01)

CPC (source: EP US)  
**C07C 67/03** (2013.01 - EP US); **C11C 3/003** (2013.01 - EP US)

Cited by  
EP1593732A1; FR2869612A1; FR2890656A1; FR2869613A1; EP1460124A1; FR2852602A1; US7151187B2; US7420073B2; WO2018002559A1; US10533145B2

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